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=> S AMYLASE (3A)(MUTA? OR VARIANT OR HYBRID OR CHIMER?)
9 FILES SEARCHED...

L1 2148 AMYLASE (3A)(MUTA? OR VARIANT OR HYBRID OR CHIMER?)

=> S L1 (3A)(sequence or gene)
6 FILES SEARCHED...

10 FILES SEARCHED...
L2 292 L1 (3A)(SEQUENCE OR GENE)

=> s l2 (3a) bacillus
L3 68 L2 (3A) BACILLUS

=> dup rem l3
PROCESSING COMPLETED FOR L3
L5 55 DUP REM L3 (13 DUPLICATES REMOVED)

=> d 1-10

L5 ANSWER 1 OF 55 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:756865 HCAPLUS

DN 141:256547

TI Amylases variants producing reduced immunogenic response, methods of
making via T-cell epitope identification and mutagenesis, and use as
cleaning compositions

IN Harding, Fiona A.

PA Genencor International, Inc., USA

SO PCT Int. Appl., 74 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004078960	A1	20040916	WO 2003-US5658	20030226
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF,			

BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
PRAI WO 2003-US5658 20030226
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 55 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:773736 HCAPLUS
DN 141:273633
TI Substitution variants of .alpha.-amylase with improved activity in
alkaline conditions for use in cleaning compositions
IN Bessler, Cornelius; Schmitz, Susanne; Schmitt, Jutta; Schmid, Rolf
PA Henkel K.-G.a.A., Germany
SO Ger. Offen., 58 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10309803	A1	20040923	DE 2003-10309803	20030305
PRAI	DE 2003-10309803		20030305		

L5 ANSWER 3 OF 55 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2002:888915 HCAPLUS
DN 137:381698
TI Bacillus .alpha.-amylase variants with altered properties and their uses
IN Svendsen, Allan; Andersen, Carsten; Thisted, Thomas; Von der Osten, Claus
PA Novozymes A/S, Den.
SO PCT Int. Appl., 168 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002092797	A2	20021121	WO 2002-DK319	20020515
	WO 2002092797	A3	20040325		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1423513	A2	20040602	EP 2002-724147	20020515
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	US 2004096952	A1	20040520	US 2003-477725	20031114
PRAI	DK 2001-760	A	20010515		
	DK 2001-981	A	20010622		
	DK 2001-982	A	20010622		
	DK 2001-998	A	20010626		
	DK 2001-999	A	20010626		
	DK 2001-1443	A	20011002		
	WO 2002-DK319	W	20020515		

L5 ANSWER 4 OF 55 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2002:293820 HCAPLUS
DN 136:306025
TI Bacillus strains KSM-36 and KSM-38 .alpha.-amylase variants with altered
properties
IN Andersen, Carsten
PA Novozymes A/S, Den.
SO PCT Int. Appl., 69 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002031124	A2	20020418	WO 2001-DK668	20011012
	WO 2002031124	A3	20030227		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
 PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
 US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2002010380 A5 20020422 AU 2002-10380 20011012
 EP 1326965 A2 20030716 EP 2001-978207 20011012
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 US 2004091994 A1 20040513 US 2003-399161 20030411
 PRAI DK 2000-1533 A 20001013
 US 2000-242692P P 20001023
 DK 2001-1442 A 20011002
 US 2001-326752P P 20011003
 WO 2001-DK668 W 20011012

L5 ANSWER 5 OF 55 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:284478 HCAPLUS

DN 136:305146

TI Recombinant mutant alkalophilic Bacillus .alpha.-amylase with improved
 thermostability, recombinant expression, and detergent use

IN Araki, Hiroyuki; Endo, Keiji; Hagiwara, Hiroshi; Igarashi, Kazuaki;
 Hayashi, Yasuhiro; Ozaki, Katsuya

PA Kao Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 28 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002112792	A2	20020416	JP 2000-310605	20001011
	US 2002123124	A1	20020905	US 2001-971611	20011009
	US 6743616	B2	20040601		
	EP 1199356	A2	20020424	EP 2001-123378	20011010
	EP 1199356	A3	20020515		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	CN 1348000	A	20020508	CN 2001-141253	20011011
	US 2004265959	A1	20041230	US 2004-798278	20040312
PRAI	JP 2000-310605	A	20001011		
	US 2001-971611	A1	20011009		

L5 ANSWER 6 OF 55 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:676914 HCAPLUS

DN 135:238614

TI Tertiary structure modeling of Bacillus .alpha.-amylases and construction
 of variants with altered solubility and related enzymic properties

IN Andersen, Carsten; Borchert, Torben Vedel; Nielsen, Bjarne Ronfeldt

PA Novozymes A/S, Den.

SO PCT Int. Appl., 152 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001066712	A2	20010913	WO 2001-DK144	20010307
	WO 2001066712	A3	20020418		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1263942	A2	20021211	EP 2001-911458	20010307
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2004505606	T2	20040226	JP 2001-565869	20010307
	US 2003129718	A1	20030710	US 2001-925576	20010809

PRAI DK 2000-376 A 20000308
 US 2000-189857P P 20000315
 DK 2001-303 A 20010223
 US 2001-271382P P 20010226
 WO 2001-DK144 W 20010307

L5 ANSWER 7 OF 55 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:719022 HCAPLUS

DN 135:285005

TI Production of oxidatively stable Bacillus .alpha.-amylase recombinant mutants and their use in detergents and starch liquefaction compositions

IN Barnett, Christopher C.; Mitchinson, Colin; Power, Scott D.; Requadt, Carol A.

PA USA

SO U.S., 57 pp., Cont.-in-part of U.S. Ser. No. 16,395, abandoned.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6297037	B1	20011002	US 1994-194664	19940210
	CN 1118172	A	19960306	CN 1994-191138	19940210
	CN 1104499	B	20030402		
	HU 72920	A2	19960628	HU 1995-2364	19940210
	HU 219675	B	20010628		
	EP 867504	A1	19980930	EP 1998-109967	19940210
	EP 867504	B1	20030502		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
	AT 175235	E	19990115	AT 1994-909609	19940210
	ES 2126743	T3	19990401	ES 1994-909609	19940210
	AT 239075	E	20030515	AT 1998-109967	19940210
	PT 867504	T	20030829	PT 1998-109967	19940210
	ES 2198617	T3	20040201	ES 1998-109967	19940210
	CZ 293163	B6	20040218	CZ 1995-2057	19940210
	US 5824532	A	19981020	US 1995-468220	19950606
	US 5849549	A	19981215	US 1995-468698	19950606
PRAI	US 1993-16395	B2	19930211		
	EP 1994-909609	A3	19940210		
	US 1994-194664	A3	19940210		

RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 8 OF 55 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:10699 HCAPLUS

DN 134:82718

TI Mutant .alpha.-amylases with improved thermal stability for use in detergents

IN Endo, Keiji; Igarashi, Kazuaki; Hayashi, Yasuhiro; Hagihara, Hiroshi; Ozaki, Katsuya

PA Kao Corp., Japan

SO Eur. Pat. Appl., 28 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1065277	A1	20010103	EP 2000-111911	20000613
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2001054392	A2	20010227	JP 2000-170517	20000607
	CN 1277258	A	20001220	CN 2000-118140	20000609
PRAI	JP 1999-163569	A	19990610		

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 9 OF 55 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:725751 HCAPLUS

DN 133:292888

TI .alpha.-Amylase variants with improved specificity and/or specific activity

IN Andersen, Carsten; Jorgensen, Christel Thea; Bisgard-Frantzen, Henrik; Svendsen, Allan; Kjaerulff, Soren

PA Novo Nordisk A/S, Den.

SO PCT Int. Appl., 78 pp.

CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000060059	A2	20001012	WO 2000-DK148	20000328
	WO 2000060059	A3	20010510		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2365438	AA	20001012	CA 2000-2365438	20000328
	BR 2000009362	A	20011226	BR 2000-9362	20000328
	EP 1165762	A2	20020102	EP 2000-912415	20000328
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002540785	T2	20021203	JP 2000-609551	20000328
	RU 2231547	C2	20040627	RU 2001-129163	20000328
	US 6410295	B1	20020625	US 2000-537168	20000329
	US 2003044954	A1	20030306	US 2002-146327	20020515
PRAI	DK 1999-437	A	19990330		
	US 1999-127427P	P	19990401		
	WO 2000-DK148	W	20000328		
	US 2000-537168	A3	20000329		

L5 ANSWER 10 OF 55 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2000:351648 HCAPLUS
DN 133:14086
TI Bacillus Termamyl-like .alpha.-amylase variants with improved pH and temperature stability
IN Svendsen, Allan; Kjaerulff, Soren; Bisgard-Frantzen, Henrik; Andersen, Carsten
PA Novo Nordisk A/S, Den.
SO PCT Int. Appl., 80 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000029560	A1	20000525	WO 1999-DK628	19991116
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2350837	AA	20000525	CA 1999-2350837	19991116
	EP 1131418	A1	20010912	EP 1999-972255	19991116
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002530072	T2	20020917	JP 2000-582544	19991116
PRAI	DK 1998-1495	A	19981116		
	WO 1999-DK628	W	19991116		

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 11-20

L5 ANSWER 11 OF 55 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2000:630815 HCAPLUS
DN 133:218513
TI Recombinant mutant alkalophilic Bacillus .alpha.-amylase with improved thermostability, recombinant expression, and detergent use
IN Igarashi, Kazuaki; Endo, Keiji; Hayashi, Yasuhiro; Hagiwara, Hiroshi; Ozaki, Katsuya

PA Kao Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000245466	A2	20000912	JP 1999-48213	19990225
PRAI	JP 1999-48213		19990225		

L5 ANSWER 12 OF 55 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:316787 HCAPLUS

DN 132:344864

TI Novel .alpha.-amylase mutants of Bacillus amyloliquefaciens with appropriate thermostability and their use for bakery products

IN Tamakawa, Shinichiro; Yoshida, Masaharu; Minoda, Masashi; Takahashi, Satoko; Hidaki, Yumiko; Tani, Masakazu; Hashimoto, Tetsushi

PA Daiwa Kasei K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 22 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000135093	A2	20000516	JP 1999-234813	19990820
PRAI	JP 1998-237839	A	19980824		

L5 ANSWER 13 OF 55 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:771853 HCAPLUS

DN 134:321381

TI Cell-associated degradation affects the yield of secreted engineered and heterologous proteins in the Bacillus subtilis expression system

AU Jensen, Christina L.; Stephenson, Keith; Jorgensen, Steen T.; Harwood, Colin

CS Bacterial Gene Technology, Novo Nordisk A/S, Bagsvaerd, DK-2880, Den.

SO Microbiology (Reading, United Kingdom) (2000), 146(10), 2583-2594

CODEN: MROBEO; ISSN: 1350-0872

PB Society for General Microbiology

DT Journal

LA English

RE.CNT 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 14 OF 55 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1999:566161 HCAPLUS

DN 131:181666

TI Maltogenic .alpha.-amylase variants with altered properties

IN Cherry, Joel Robert; Svendsen, Allan; Andersen, Carsten; Beier, Lars; Frandsen, Torben Peter

PA Novo Nordisk A/S, Den.

SO PCT Int. Appl., 146 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9943794	A1	19990902	WO 1999-DK88	19990226
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA	2321595	AA	19990902	CA 1999-2321595	19990226
AU	9925129	A1	19990915	AU 1999-25129	19990226
AU	757935	B2	20030313		
BR	9908281	A	20001031	BR 1999-8281	19990226
TR	200002498	T2	20001121	TR 2000-200002498	19990226
EP	1058724	A1	20001213	EP 1999-904736	19990226
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				

NZ 505820	A	20021025	NZ 1999-505820	19990226
JP 2003521866	T2	20030722	JP 2000-533534	19990226
US 6162628	A	20001219	US 1999-386607	19990831
PRAI DK 1998-269	A	19980227		
US 1998-77795P	P	19980312		
WO 1999-DK88	W	19990226		

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 15 OF 55 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1999:388308 HCAPLUS
DN 131:41524
TI Mutant Bacillus licheniformis alpha-amylase with improved low pH performance and their use in starch liquefaction and in detergents
IN Caldwell, Robert M.; Mitchinson, Colin; Ropp, Traci H.
PA Genencor International, Inc., USA
SO PCT Int. Appl., 38 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9929876	A2	19990617	WO 1998-US25124	19981201
	WO 9929876	A3	19990722		
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 6211134	B1	20010403	US 1997-985659	19971209
	CA 2312053	AA	19990617	CA 1998-2312053	19981201
	AU 9916038	A1	19990628	AU 1999-16038	19981201
	EP 1038007	A2	20000927	EP 1998-960453	19981201
	EP 1038007	B1	20040512		
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, FI				
	JP 2001526038	T2	20011218	JP 2000-524447	19981201
	AT 266732	E	20040515	AT 1998-960453	19981201
PRAI	US 1997-985659	A	19971209		
	US 1996-645971	A2	19960514		
	WO 1998-US25124	W	19981201		

L5 ANSWER 16 OF 55 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1999:311291 HCAPLUS
DN 130:334680
TI .alpha.-Amylase mutants with improved wash performance
IN Borchert, Torben Vedel; Svendsen, Allan; Andersen, Carsten; Nielsen, Bjarne Ronfeld; Nissen, Torben Lauesgaard; Kjaerulff, Soren
PA Novo Nordisk A/S, Den.
SO PCT Int. Appl., 116 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9923211	A1	19990514	WO 1998-DK471	19981030
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2308119	AA	19990514	CA 1998-2308119	19981030
	AU 9897373	A1	19990524	AU 1998-97373	19981030
	EP 1027428	A1	20000816	EP 1998-951291	19981030
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
	BR 9813328	A	20000822	BR 1998-13328	19981030
	US 6204232	B1	20010320	US 1998-183412	19981030
	JP 2001521739	T2	20011113	JP 2000-519071	19981030

US	2001039253	A1	20011108	US	2001-769864	20010125
US	6673589	B2	20040106			
US	2004038368	A1	20040226	US	2003-665667	20030919
PRAI	DK 1997-1240	A	19971030			
DK	1998-936	A	19980714			
US	1997-64662P	P	19971106			
US	1998-93234P	P	19980717			
US	1998-183412	A3	19981030			
WO	1998-DK471	W	19981030			
US	2001-769864	A3	20010125			

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 17 OF 55 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1999:271480 HCAPLUS
DN 130:308445
TI .alpha.-Amylase mutants with improved thermostability for use as detergent
additives and for starch liquefaction
IN Svendsen, Allan; Borchert, Torben Vedel; Bisgard-Frantzen, Henrik
PA Novo Nordisk A/S, Den.
SO PCT Int. Appl., 93 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9919467	A1	19990422	WO 1998-DK444	19981013
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2305191	AA	19990422	CA 1998-2305191	19981013
	AU 9894343	A1	19990503	AU 1998-94343	19981013
	EP 1023439	A1	20000802	EP 1998-947417	19981013
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
	JP 2001520006	T2	20011030	JP 2000-516020	19981013
PRAI	DK 1997-1172	A	19971013		
	WO 1998-DK444	W	19981013		

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 18 OF 55 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:684975 HCAPLUS
DN 129:272325
TI Preparation of Bacillus .alpha.-amylase mutant suitable for preparation of detergent
IN Hatada, Yuji; Ikawa, Kaori; Ito, Susumu
PA Kao Corp., Japan
SO PCT Int. Appl., 42 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9844126	A1	19981008	WO 1998-JP1464	19980331
	W: CN, JP, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 985731	A1	20000315	EP 1998-911122	19980331
	R: DE, DK, ES, FR, GB, NL				
	US 6486113	B1	20021126	US 1999-381687	19990923
PRAI	JP 1997-80299	A	19970331		
	WO 1998-JP1464	W	19980331		

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 19 OF 55 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:406084 HCAPLUS
DN 129:77577
TI H mutant .alpha.-amylase enzymes
IN Day, Anthony G.; Mitchinson, Colin; Shaw, Andrew

PA Genencor International, Inc., USA
SO PCT Int. Appl., 40 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9826078	A1	19980618	WO 1996-US19595	19961209
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2274806	AA	19980618	CA 1996-2274806	19961209
	AU 9714614	A1	19980703	AU 1997-14614	19961209
	EP 942994	A1	19990922	EP 1996-945189	19961209
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	CN 1242048	A	20000119	CN 1996-180572	19961209
	JP 2001506496	T2	20010522	JP 1998-526596	19961209
	NZ 524303	A	20040625	NZ 1996-524303	19961209

PRAI WO 1996-US19595 A 19961209

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 20 OF 55 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:719123 HCAPLUS
DN 129:327734
TI Bacillus .alpha.-amylase variants with improved washing performance
IN Bisgard-Frantzen, Henrik; Borchert, Torben Vedel; Svendsen, Allan; Thellersen, Marianne; Van der Zee, Pia
PA Novo Nordisk A/s, Den.
SO U.S., 50 pp.
CODEN: USXXAM

DT Patent
LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5830837	A	19981103	US 1994-343804	19941122
	US 5801043	A	19980901	US 1995-459610	19950602
	US 5753460	A	19980519	US 1996-720899	19961010
PRAI	DK 1993-1133	A	19931008		
	DK 1994-140	A	19940202		
	US 1994-321271	B1	19941011		
	US 1994-343804	A1	19941122		
	US 1995-459610	A3	19950602		

RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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(FILE 'HOME' ENTERED AT 17:58:30 ON 16 FEB 2005)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 17:58:50 ON 16 FEB 2005
L1 2148 S AMYLASE (3A)(MUTA? OR VARIANT OR HYBRID OR CHIMER?)
L2 292 S L1 (3A)(SEQUENCE OR GENE)
L3 68 S L2 (3A) BACILLUS
L4 172 DUP REM L2 (120 DUPLICATES REMOVED)
L5 55 DUP REM L3 (13 DUPLICATES REMOVED)

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COST IN U.S. DOLLARS

SINCE FILE
ENTRY
39.53

TOTAL
SESSION
39.74

FULL ESTIMATED COST

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 18:04:10 ON 16 FEB 2005

WEST Search History

DATE: Wednesday, February 16, 2005

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<input type="checkbox"/>	L11	L10 and mutant	11
<input type="checkbox"/>	L10	L9 and amylase	58
<input type="checkbox"/>	L9	endo.in.	42880
<input type="checkbox"/>	L8	L7 near5 (sequence or gene)	29
<input type="checkbox"/>	L7	L6 near5 bacillus	84
<input type="checkbox"/>	L6	amylase near5 (mutat\$ or variant or hybrid or chimer\$)	762
<input type="checkbox"/>	L5	amylase near5 bacillus	3147
<input type="checkbox"/>	L4	L3 and (gene or sequence)	773
<input type="checkbox"/>	L3	L2 and bacillus	850
<input type="checkbox"/>	L2	amylase with (mutat\$ or variant or hybrid or chimer\$)	1061
<input type="checkbox"/>	L1	amylase and bacillus	8019

END OF SEARCH HISTORY

Hit List

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Fwd Refs

Bkwd Refs

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Search Results - Record(s) 1 through 10 of 29 returned.

☐ 1. Document ID: US 20040096952 A1

Using default format because multiple data bases are involved.

L8: Entry 1 of 29

File: PGPB

May 20, 2004

PGPUB-DOCUMENT-NUMBER: 20040096952

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040096952 A1

TITLE: Alpha-amylase variant with altered properties

PUBLICATION-DATE: May 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Svendsen, Allan	Horsholm		DK	
Andersen, Casten	Vaerlose		DK	
Thisted, Thomas	Frederikssund		DK	
Von Der Osten, Claus	Lyngby		DK	

US-CL-CURRENT: 435/202; 435/252.31, 510/226, 510/320

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 2. Document ID: US 20040038368 A1

L8: Entry 2 of 29

File: PGPB

Feb 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040038368

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040038368 A1

TITLE: Alpha-amylase mutants

PUBLICATION-DATE: February 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Borchert, Torben Vedel	Copenhagen O		DK	
Svendsen, Allan	Birkerod		DK	
Andersen, Carsten	Vaerloese		DK	
Nielsen, Bjarne	Virum		DK	

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Nissen, Torben Lauesgaard
Kjaerulff, Soren

Frederiksberg
Vanlose

DK
DK

US-CL-CURRENT: 435/202

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 20030211958 A1

L8: Entry 3 of 29

File: PGPB

Nov 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030211958
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030211958 A1

TITLE: Alpha-amylase mutants

PUBLICATION-DATE: November 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Svendsen, Allan	Birkerod		DK	
Borchert, Torben Vedel	Copenhagen		DK	
Bisgard-Frantzen, Henrik	Bagsvaerd		DK	
Outtrup, Helle	Ballerup		DK	
Nielsen, Bjarne Ronfeldt	Virum		DK	
Nielsen, Vibeke Skovgaard	Bagsvaerd		DK	
Hedegaard, Lisbeth	Skodsborg		DK	

US-CL-CURRENT: 510/226; 435/202, 435/320.1, 435/325, 435/69.1, 510/320, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 4. Document ID: US 20030129718 A1

L8: Entry 4 of 29

File: PGPB

Jul 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030129718
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030129718 A1

TITLE: Amylase variants

PUBLICATION-DATE: July 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Andersen, Carsten	Vaerlose		DK	
Borchert, Torben Vedel	Birkerod		DK	

h e b b g e e e f e ef ef b e

Nielsen, Bjarne Ronfeldt

Virum

DK

US-CL-CURRENT: 435/183; 510/392

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	NUMC	Draw. Des
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☐ 5. Document ID: US 20030044954 A1

L8: Entry 5 of 29

File: PGPB

Mar 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030044954

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030044954 A1

TITLE: Alpha-amylase variants

PUBLICATION-DATE: March 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Andersen, Carsten	Vaerlose		DK	
Jorgensen, Christel Thea	Kobenhavn O		DK	
Bisgard-Frantzen, Henrik	Bagsvaerd		DK	
Svendsen, Allan	Birkerod		DK	
Kjaerulff, Soren	Vanlose		DK	

US-CL-CURRENT: 435/202; 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	NUMC	Draw. Des
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☐ 6. Document ID: US 20020155574 A1

L8: Entry 6 of 29

File: PGPB

Oct 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020155574

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020155574 A1

TITLE: Alpha-amylase mutants with altered properties

PUBLICATION-DATE: October 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Thisted, Thomas	Rungsted Kyst		DK	
Kjaerulff, Soren	Vanlose		DK	
Andersen, Carsten	Vaerloese		DK	
Fuglsang, Claus Crone	Niva		DK	

US-CL-CURRENT: 435/202; 435/203, 435/320.1, 435/325, 435/69.1

h e b b g e e e f e ef ef b e

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 7. Document ID: US 20020068352 A1

L8: Entry 7 of 29

File: PGPB

Jun 6, 2002

PGPUB-DOCUMENT-NUMBER: 20020068352

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020068352 A1

TITLE: Alpha-amylase variants with altered 1, 6-activity

PUBLICATION-DATE: June 6, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Svendsen, Allan	Horsholm		DK	
Jorgensen, Christel Thea	Kobenhavn O		DK	
Nielsen, Bjarne Ronfeldt	Virum		DK	

US-CL-CURRENT: 435/202; 435/183, 435/195, 435/69.1, 510/392, 510/393

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 8. Document ID: US 20010039253 A1

L8: Entry 8 of 29

File: -PGPB

Nov 8, 2001

PGPUB-DOCUMENT-NUMBER: 20010039253

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010039253 A1

TITLE: Alpha-amylase mutants

PUBLICATION-DATE: November 8, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Borchert, Torben Vedel	Copenhagen O		DK	
Svendsen, Allan	Birkerod		DK	
Andersen, Carsten	Vaerloese		DK	
Nielsen, Bjarne	Virum		DK	
Nissen, Torben Lauesgaard	Frederiksberg C		DK	
Kjarulff, Soren	Vanlose		DK	

US-CL-CURRENT: 510/392; 510/305, 510/306

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 9. Document ID: US 6528298 B1

L8: Entry 9 of 29

File: USPT

Mar 4, 2003

US-PAT-NO: 6528298

DOCUMENT-IDENTIFIER: US 6528298 B1

TITLE: .alpha.-amylase mutants

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 10. Document ID: US 6428981 B1

L8: Entry 10 of 29

File: USPT

Aug 6, 2002

US-PAT-NO: 6428981

DOCUMENT-IDENTIFIER: US 6428981 B1

TITLE: Bacillus protein production cell

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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Terms	Documents
L7 near5 (sequence or gene)	29

Display Format: [Previous Page](#)[Next Page](#)[Go to Doc#](#)

Hit List

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Search Results - Record(s) 11 through 20 of 29 returned.

☐ 11. Document ID: US 6410295 B1

Using default format because multiple data bases are involved.

L8: Entry 11 of 29

File: USPT

Jun 25, 2002

US-PAT-NO: 6410295

DOCUMENT-IDENTIFIER: US 6410295 B1

TITLE: Alpha-amylase variants

DATE-ISSUED: June 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Andersen; Carsten	Vaerl.o slashed.se				DK
J.o slashed.rgensen;	K .o slashed.benhavn .O				DK
Christel Thea	slashed.				
Bisg.ang.rd-Frantzen; Henrik	Bagsvaerd				DK
Svendsen; Allan	Birker.o slashed.d				DK
Kjaerulff; S.o slashed.ren	Vanl.o slashed.se				DK

US-CL-CURRENT: 435/202; 435/183, 435/200, 435/252.3, 435/320.1, 435/440

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 12. Document ID: US 6361989 B1

L8: Entry 12 of 29

File: USPT

Mar 26, 2002

US-PAT-NO: 6361989

DOCUMENT-IDENTIFIER: US 6361989 B1

TITLE: .alpha.-amylase and .alpha.-amylase variants

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 13. Document ID: US 6204232 B1

L8: Entry 13 of 29

File: USPT

Mar 20, 2001

US-PAT-NO: 6204232

DOCUMENT-IDENTIFIER: US 6204232 B1

TITLE: .alpha.-amylase mutants

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw. De
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☐ 14. Document ID: US 6197565 B1

L8: Entry 14 of 29

File: USPT

Mar 6, 2001

US-PAT-NO: 6197565

DOCUMENT-IDENTIFIER: US 6197565 B1

TITLE: .alpha.-Amylase variants

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw. De
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☐ 15. Document ID: US 6187576 B1

L8: Entry 15 of 29

File: USPT

Feb 13, 2001

US-PAT-NO: 6187576

DOCUMENT-IDENTIFIER: US 6187576 B1

TITLE: .alpha.-amylase mutants

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw. De
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☐ 16. Document ID: US 5830837 A

L8: Entry 16 of 29

File: USPT

Nov 3, 1998

US-PAT-NO: 5830837

DOCUMENT-IDENTIFIER: US 5830837 A

**** See image for Certificate of Correction ****

TITLE: Amylase variants

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw. De
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☐ 17. Document ID: US 5801043 A

L8: Entry 17 of 29

File: USPT

Sep 1, 1998

US-PAT-NO: 5801043

DOCUMENT-IDENTIFIER: US 5801043 A

**** See image for Certificate of Correction ****

TITLE: Amylase variants

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 18. Document ID: US 5753460 A

L8: Entry 18 of 29

File: USPT

May 19, 1998

US-PAT-NO: 5753460

DOCUMENT-IDENTIFIER: US 5753460 A

TITLE: Amylase variants

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 19. Document ID: US 5736499 A

L8: Entry 19 of 29

File: USPT

Apr 7, 1998

US-PAT-NO: 5736499

DOCUMENT-IDENTIFIER: US 5736499 A

TITLE: Mutant A-amylase

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 20. Document ID: US 5705375 A

L8: Entry 20 of 29

File: USPT

Jan 6, 1998

US-PAT-NO: 5705375

DOCUMENT-IDENTIFIER: US 5705375 A

** See image for Certificate of Correction **

TITLE: Transgenic plants having a modified carbohydrate content

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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Search Results - Record(s) 21 through 29 of 29 returned.

☐ 21. Document ID: US 5705362 A

Using default format because multiple data bases are involved.

L8: Entry 21 of 29

File: USPT

Jan 6, 1998

US-PAT-NO: 5705362

DOCUMENT-IDENTIFIER: US 5705362 A

TITLE: Modified signal sequences

DATE-ISSUED: January 6, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bonekamp; AlfonsusJohannes	Delft			NL
Van Tilborg; Marcellis Wilhelmus Elisabeth Maria	Leiden			NL

US-CL-CURRENT: 435/69.8; 435/252.3, 435/252.31, 435/69.1, 530/350, 530/351,
536/23.1, 536/23.2, 536/23.4, 536/23.5, 536/23.7

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KNOC	Draw D
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☐ 22. Document ID: US 5698415 A

L8: Entry 22 of 29

File: USPT

Dec 16, 1997

US-PAT-NO: 5698415

DOCUMENT-IDENTIFIER: US 5698415 A

**** See image for Certificate of Correction ****

TITLE: Bacillus promoter derived from a variant of a bacillus licheniformis X-amylase promoter

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KNOC	Draw D
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☐ 23. Document ID: US 5470725 A

L8: Entry 23 of 29

File: USPT

Nov 28, 1995

US-PAT-NO: 5470725

DOCUMENT-IDENTIFIER: US 5470725 A

TITLE: Thermostable (1,3-1,4)-.beta.-glucanase

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC	Drawn De
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☐ 24. Document ID: US 5084383 A

L8: Entry 24 of 29

File: USPT

Jan 28, 1992

US-PAT-NO: 5084383

DOCUMENT-IDENTIFIER: US 5084383 A

**** See image for Certificate of Correction ****

TITLE: Bacillus subtilis strain whose extracellular protease activities are reduced, method for obtaining the strain and method for secreting proteins by using the strain

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC	Drawn De
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☐ 25. Document ID: US 5015574 A

L8: Entry 25 of 29

File: USPT

May 14, 1991

US-PAT-NO: 5015574

DOCUMENT-IDENTIFIER: US 5015574 A

**** See image for Certificate of Correction ****

TITLE: DNA sequence involved in gene expression and protein secretion, expression-secretion vector including the DNA sequence and the method of producing proteins by using the expression-secretion vector

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC	Drawn De
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☐ 26. Document ID: EP 867504 A1

L8: Entry 26 of 29

File: EPAB

Sep 30, 1998

PUB-NO: EP000867504A1

DOCUMENT-IDENTIFIER: EP 867504 A1

TITLE: Oxidation-stable alpha-amylase

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC	Drawn De
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☐ 27. Document ID: FR 2676456 A1

L8: Entry 27 of 29

File: EPAB

Nov 20, 1992

PUB-NO: FR002676456A1

DOCUMENT-IDENTIFIER: FR 2676456 A1

TITLE: Thermostable variants of Bacillus licheniformis alpha -amylase, process for preparing them and their use

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 28. Document ID: FR 2665178 A1

L8: Entry 28 of 29

File: EPAB

Jan 31, 1992

PUB-NO: FR002665178A1

DOCUMENT-IDENTIFIER: FR 2665178 A1

TITLE: Heat-stable variants of the alpha-amylase of Bacillus licheniformis, process for their preparation and their use

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 29. Document ID: US 4493893 A

L8: Entry 29 of 29

File: DWPI

Jan 15, 1985

DERWENT-ACC-NO: 1985-031678

DERWENT-WEEK: 198505

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TITLE: Chimeric plasmid(s) contg. thermostable alpha-amylase gene - derived from Bacillus stearothermophilus

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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Terms	Documents
L7 near5 (sequence or gene)	29

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☐ 1. Document ID: US 20040265959 A1

Using default format because multiple data bases are involved.

L13: Entry 1 of 11

File: PGPB

Dec 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040265959

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040265959 A1

TITLE: Highly productive alpha-amylases

PUBLICATION-DATE: December 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Araki, Hiroyuki	Tochigi		JP	
<u>Endo</u> , Keiji	Tochigi		JP	
Hagihara, Hiroshi	Tochigi		JP	
Igarashi, Kazuaki	Tochigi		JP	
Hayashi, Yasuhiro	Tochigi		JP	
Ozaki, Katsuya	Tochigi		JP	

US-CL-CURRENT: 435/69.1; 435/204, 435/252.3, 435/320.1, 510/320, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 2. Document ID: US 20040248279 A1

L13: Entry 2 of 11

File: PGPB

Dec 9, 2004

PGPUB-DOCUMENT-NUMBER: 20040248279

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040248279 A1

TITLE: Host microorganisms

PUBLICATION-DATE: December 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sawada, Kazuhisa	Haga-gun		JP	
<u>Endo</u> , Keiji	Haga-gun		JP	

Ozawa, Tadahiro	Haga-gun	JP
Tohata, Masatoshi	Haga-gun	JP
Ozaki, Katsuya	Haga-gun	JP

US-CL-CURRENT: 435/252.31; 424/200.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWAC	Draw D
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☐ 3. Document ID: US 20040002431 A1

L13: Entry 3 of 11

File: PGPB

Jan 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040002431
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040002431 A1

TITLE: Alkaline cellulase variants

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hakamada, Yoshihiro	Haga-gun		JP	
Sawada, Kazuhisa	Haga-gun		JP	
<u>Endo, Keiji</u>	Haga-gun		JP	
Kodama, Hiroshi	Haga-gun		JP	
Wada, Yasunao	Wakayama-shi		JP	
Shikata, Shitsu	Wakayama-shi		JP	
Kobayashi, Tohru	Haga-gun		JP	

US-CL-CURRENT: 510/226; 435/209, 435/252.3, 435/320.1, 435/69.1, 510/320, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWAC	Draw D
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☐ 4. Document ID: US 20020123124 A1

L13: Entry 4 of 11

File: PGPB

Sep 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020123124
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020123124 A1

TITLE: Highly productive alpha-amylases

PUBLICATION-DATE: September 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Araki, Hiroyuki	Haga-gun		JP	

Endo, Keiji	Haga-gun	JP
Hagihara, Hiroshi	Haga-gun	JP
Igarashi, Kazuaki	Haga-gun	JP
Hayashi, Yasuhiro	Haga-gun	JP
Ozaki, Katsuya	Haga-gun	JP

US-CL-CURRENT: 435/202; 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Da
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☐ 5. Document ID: US 6743616 B2

L13: Entry 5 of 11

File: USPT

Jun 1, 2004

US-PAT-NO: 6743616

DOCUMENT-IDENTIFIER: US 6743616 B2

**** See image for Certificate of Correction ****TITLE: Highly productive alpha-amylases

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Da
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☐ 6. Document ID: JP 2002112792 A

L13: Entry 6 of 11

File: JPAB

Apr 16, 2002

PUB-NO: JP02002112792A

DOCUMENT-IDENTIFIER: JP 2002112792 A

TITLE: HIGHLY PRODUCTIVE α -AMYLASE

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Da
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☐ 7. Document ID: JP 2001054392 A

L13: Entry 7 of 11

File: JPAB

Feb 27, 2001

PUB-NO: JP02001054392A

DOCUMENT-IDENTIFIER: JP 2001054392 A

TITLE: MUTANT α -AMYLASE

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Da
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☐ 8. Document ID: JP 2000245466 A

L13: Entry 8 of 11

File: JPAB

Sep 12, 2000

PUB-NO: JP02000245466A

DOCUMENT-IDENTIFIER: JP 2000245466 A

TITLE: MUTANT α -AMYLASE

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 9. Document ID: EP 1065277 A1

L13: Entry 9 of 11

File: EPAB

Jan 3, 2001

PUB-NO: EP001065277A1

DOCUMENT-IDENTIFIER: EP 1065277 A1

TITLE: Mutant alpha-amylases

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 10. Document ID: US 20040265959 A1, EP 1199356 A2, JP 2002112792 A, CN 1348000 A, US 20020123124 A1, US 6743616 B2

L13: Entry 10 of 11

File: DWPI

Dec 30, 2004

DERWENT-ACC-NO: 2002-354203

DERWENT-WEEK: 200503

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TITLE: New mutant alpha-amylase, useful in detergent compositions, comprises increased productivity when prepared recombinantly and better resistance to heat

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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Search Results - Record(s) 11 through 11 of 11 returned.

☐ 11. Document ID: EP 1065277 A1, JP 2001054392 A, CN 1277258 A

Using default format because multiple data bases are involved.

L13: Entry 11 of 11

File: DWPI

Jan 3, 2001

DERWENT-ACC-NO: 2001-073344

DERWENT-WEEK: 200176

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TITLE: A gene encoding a mutant alpha-amylase obtained by making replacement or deletions of amino acid residues in a characteristic sequence

INVENTOR: ENDO, K; HAGIHARA, H ; HAYASHI, Y ; IGARASHI, K ; OZAKI, K

PRIORITY-DATA: 1999JP-0163569 (June 10, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1065277 A1	January 3, 2001	E	028	C12N015/56
JP 2001054392 A	February 27, 2001		024	C12N015/09
CN 1277258 A	December 20, 2000		000	C12N009/28

INT-CL (IPC): C11 D 3/386; C12 N 1/15; C12 N 1/19; C12 N 1/21; C12 N 5/10; C12 N 9/28; C12 N 15/09; C12 N 15/56; C12 N 15/63; C12 N 1/21; C12 R 1/125

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	K00C	Draw De
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